## 

$$1 = \frac{f(x)}{e^x} + a(a, 0) f(-1) = 1$$

$$\lim_{0 \ge 0} \lim_{0 \le x} \frac{1}{e^x} - \frac{2}{e^x}$$

$$(\frac{1}{e} + a)(-e + a) = -1$$

$$f(x) = \frac{X}{e^x}, \ f(x) = \frac{1-X}{e^x}$$

$$\therefore f(x)_{00000000} (-\infty,1)_{000000000} (1,+\infty)_{0}$$

$$lnx > \frac{1}{e^x} - \frac{2}{e^x} \qquad xlnx > \frac{x}{e^x} - \frac{2}{e}$$

$$\mathcal{G}(x) > 0$$

$$\therefore g(x) = \begin{pmatrix} 0, \frac{1}{e} \\ 0 & 0 \end{pmatrix} \begin{pmatrix} 0, \frac{1}{e}, +\infty \end{pmatrix} = \begin{pmatrix} 0, \frac{1}{e}, +\infty \end{pmatrix}$$

$$g(x)...g(\frac{1}{e}) = -\frac{1}{e}$$

$$00010000 (0, +\infty) f(x)_{max} = f(1) = \frac{1}{e_0}$$

*K*000

$$\frac{\ln x}{f(x)} = x^2 - 2ex + m$$

00000000 0000  $f(x) = In(e^x + k)(k_{00000000} R_{000000}$ 

$$\Box^{ln(\hat{\mathcal{C}}+k)=0}\Box$$

$$\square \square K = 0$$

 $\lim_{x \to x} f(x) = X_{x}$ 

$$\frac{\ln x}{x} = x^2 - 2ex + m$$

$$\prod_{x} h(x) = \frac{h(x)}{x} (x > 0) \int_{x} g(x) = x^{2} - 2ex + m(x > 0)$$

$$h'(x) = \frac{1 - \ln x}{x^2} \prod_{x \in \mathcal{X}} h'(x) = 0 \prod_{x \in \mathcal{X}} x = e_0$$

$$X \in (0, e) \cap H(X) > 0 \cap H(X) = \frac{hX}{X} \cap (0, e) \cap H(X) = \frac{hX}{X} \cap (0,$$

$$\int_{\Omega} X = e_{\Omega} \int_{\Omega} h(x)_{max} = h(e) = \frac{1}{e_{\Omega}}$$

$$\int g(x) = (x - e)^2 - e^2 + m$$

$$m \cdot \vec{e} > \frac{1}{e} \qquad m > \vec{e} + \frac{1}{e} \qquad 0$$

$$m \cdot \vec{e} < \frac{1}{e} \quad m < \vec{e} + \frac{1}{e} \quad 0$$

$$m > e^2 + \frac{1}{e}$$

$$300000 f(x) = lnx_0 g(x) = x + n(n \in R)_0$$

$$100 \stackrel{f(\vec{X}),, \ g(\vec{X})}{=} 000000 \stackrel{m}{=} 000000$$

$$0 = 0 = 0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 = 0$$

$$0 =$$

$$0000010000 F(x) = f(x) - g(x) = lnx - x - m(x > 0)$$

$$F(X) = \frac{1 - X}{X}$$

$$0 < x < 1_{00} F(x) > 0_{00} F(x)$$

$$\square X > 1 \square \square F(X) < 0 \square \square F(X) \square \square \square \square$$

$$000 X = 1_{00} F(x)_{00000} F_{010} = -1 - m_{0}$$

$$000 \, m_{000000} [-1_0 \, ^{+\infty})_{\,0}$$

020000010000
$$^{1nX}$$
,  $^{X-}$   $^{1}$ 00000 $^{X}$ .  $^{1nX+}$   $^{1}$ 0

$$\frac{e^x + (2 - e)x - 1}{x} \dots hx + 1$$

$$0000 e^{x} - (e^{-2})x - 1.x^{2} 00000$$

$$\Box h'(x) = e^x - 2x - (e - 2) \Box$$

$$\prod m(x) = e^x - 2x - (e - 2)(x > 0)$$

$$\prod_{i} m(x) = e^x - 2_{\prod_{i}}$$

$$\square X > In 2 \square \square m(X) > 0 \square \square m(X) \square \square \square$$

$${\color{red}\square} h(0) = 3 \cdot e > 0 {\color{red}\square} h {\color{red}\square} 1 {\color{red}\square} = 0 {\color{red}\square}$$

$$0 < ln2 < 1_{\square \square} h(ln2) < 0_{\square}$$

$$\lim_{n\to\infty} X_n \in (0,\ln 2) \lim_{n\to\infty} h'(X_n) = 0$$

$$\lim_{x \to \infty} X \in (0, X_0) \bigoplus_{x \to \infty} h'(x) > 0 \bigoplus_{x \to \infty} h(x) \bigoplus_{x \to \infty} h(x)$$

$$\square^{X \in (X_0 \square 1)} \square \square^{h'(X)} < 0 \square \square^{h(X)} \square \square \square \square$$

$$\square X \in (1,+\infty) \bigsqcup h'(X) > 0 \bigsqcup h(X) \bigsqcup$$

$$\square\square^{h(x)\dots 0}\square$$

$$0000 X > 0 0 \frac{e^x + (2 - e)x - 1}{X} ... \ln x + 1$$

$$0100^{X.1}000000^{f(X)}00000$$

$$200000 \times 00000 f(x) > \frac{27}{20}0000$$

$$f(x) = xe^{x} - \ln x = (x+1)e^{x} - \frac{1}{x}$$

$$X.1_{\square\square}(X+1)e^{x}..2e_{\square}\frac{1}{X'}^{1}$$

$$\therefore f(x)...2e-1>0$$

$$\therefore f(x)_{\square}[1_{\square}^{+\infty})_{\square\square\square}$$

$$f(\frac{1}{4}) = 1.25e^{\frac{1}{4}} - 4 < 1.25 \times 2 - 4 < 0$$

$$f(\frac{1}{2}) = \frac{3}{2}\sqrt{e}$$
 2 >  $\frac{3}{2}$  ×1.648 - 2 = 0.472 > 0

$$\square^{f(X)} \square^{(0,+\infty)} \square \square$$

$$\therefore f(\mathbf{X})_{\square}(\mathbf{0}, +\infty)_{\square\square\square\square} \mathbf{1}_{\square\square\square} \mathbf{X}_{\square}$$

$$\therefore X = X_0 \int f(x) \int (0, +\infty) dx$$

$$\therefore \ f(x)...f(x_0) = x_0 e^{x_0} - \ln x_0 = \frac{1}{x_0 + 1} - \ln x_0 = \frac{1}{4} < x_0 < \frac{1}{2}$$

$$\therefore f(x) \begin{bmatrix} \frac{1}{4} & \frac{1}{2} \end{bmatrix}$$

$$\therefore f(x_0) \cdot f(x_0) = \frac{2}{3} + n2 > \frac{2}{3} + 0.693 > 1.369 > \frac{27}{20}$$

$$\therefore f(x) > \frac{27}{20}$$

$$500000 f(x) = x^2 e^x - \ln x_0 (\ln 2 \approx 0.6931, \sqrt{e} \approx 1.649)$$

 $\log^{X.1} \log \log^{f(\lambda)} \log \log$ 

0 = 0 = 0 = 0 = 0

$$f(x) = xe^{x}(x+2) - \frac{1}{x_{\square}}$$

$$x.1_{\square \square} xe^{x}(x+2)..3e_{\square}^{-1}, -\frac{1}{x} < 0$$

 $\lim_{n \to \infty} (i)_{n} \stackrel{0 < x,}{=} \frac{1}{e_{n}} x^{2} e^{x} > 0_{n} \ln x + 1, 0_{n}$ 

$$\therefore \vec{x} e^x > \ln x + 1_{\bigcirc \bigcirc} f(\vec{x}) > 1_{\bigcirc} x \in (0_{\bigcirc} \frac{1}{e}]_{\bigcirc \bigcirc}$$

$$(ii)_{\square}^{X}.\frac{1}{2}_{\square\square}f(x)_{\square}^{X}.\frac{1}{2}_{\square\square\square}$$

$$1 \quad f(\frac{1}{2}) = \frac{5\sqrt{e}}{4} - 2 > 0$$

$$\therefore X \cdot \frac{1}{2} \bigcap f(x) > 0$$

$$\therefore f(x)...f(\frac{1}{2}) = \frac{\sqrt{e}}{4} + n2 \approx 1.1063 > 1$$

$$\therefore f(x) > 1_{\square}^{X \in \left[\frac{1}{2}_{\square} + \infty\right)} = 0$$

$$(iii) \frac{1}{e} < x < \frac{1}{2} \int f(x) = e^{x} (x^{2} + 2x) - \frac{1}{x}$$

$$f(\frac{1}{2}) > 0$$
  $f(\frac{1}{e}) < 0$ 

$$\exists x \in (\frac{1}{e_{\square}} \frac{1}{2})_{\square \square \square} f(x) = 0_{\square}$$

 $\therefore X = X_0 \prod_{i=1}^n f(X_i) \prod_{i=1}^n f(X_i) \prod_{i=1}^n f(X_i)$ 

$$e^{x_0}(x_0^2 + 2x_0) - \frac{1}{x_0} = 0 \quad x_0 \in (\frac{1}{e_0} \frac{1}{2})$$

$$\therefore f(x)...f(x_0) = x_0^2 e^{x_0} - \ln x_0 = \frac{1}{x_0 + 2} - \ln x_0 \left(\frac{1}{e} < x_0 < \frac{1}{2}\right)$$

$$0 g(x) = \frac{1}{x+2} - hx \left[\frac{1}{e} \frac{1}{2}\right]$$

$$\therefore g(x) > g(\frac{1}{2}) = \frac{1}{\frac{1}{2} + 2} - \ln \frac{1}{2} = 0.4 + \ln 2 > 1$$

$$f(x)...f(x) > 1_{\square} x \in (\frac{1}{e_{\square}} \frac{1}{2})_{\square \square \square \square}$$

$$6 \mod f(\vec{x}) = hx - e^{-x} \int g(\vec{x}) = a(\vec{x} - 1) - \frac{1}{x}$$

$$1/(x) = g(x) - f(x) + \frac{e^x - ex}{xe^x}$$

$$300 \ f(\vec{x}) < g(\vec{x}) \ 0 \ (1, +\infty) \ 00000000 \ a^00000000$$

0000001000000 X > 0

$$\therefore f(x) = \frac{1}{x} + \frac{e}{e^x} > 0$$

$$\square^{f(x)}\square^{(0,+\infty)}\square\square\square$$

$$f_{11} = 10^{\circ} f_{10} = 10$$

$$000 y = f(x)_0 (1, e)_0 000000$$

 $\therefore y = f(x)_{000000100}$ 

$$h(x) = a(x^2 - 1) - \frac{1}{x} - \ln x + e^{t - x} + \frac{1}{x} - \frac{e}{e^x} = ax^2 - a - \ln x$$

$$h(x) = 2ax - \frac{1}{x} = \frac{2ax^2 - 1}{x}(x > 0)$$

$$\square a_{n} 0_{\square \square} h(x) < 0_{\square} h(x)_{\square} (0, +\infty)_{\square \square \square}$$

$$a > 0$$
  $A > 0$   $A >$ 

$$\therefore x \in (0, \frac{1}{\sqrt{2a}}) \qquad h(x) < 0 \quad h(x)$$

$$X \in \left(\frac{1}{\sqrt{2a}} + \infty\right) \cap H(X) > 0 \cap H(X)$$

$$000 \, a_{n} \, 0_{00} \, h(x)_{0} \, (0,+\infty)_{000}$$

$$a > 0_{000} h(x)_{0} (0, \frac{1}{\sqrt{2a}})_{0000} (\frac{1}{\sqrt{2a}}_{0} + \infty)_{000}$$

$$\lim_{N\to\infty} \lim_{x\to\infty} \frac{e}{e^x} < a(x^2-1) - \frac{1}{x_0}$$

$$a(X^{2}-1)-\ln X>\frac{1}{X}-\frac{e}{e^{x}}(1,+\infty)$$

$$k(x) = \frac{1}{X} - \frac{e}{e'} = \frac{e' - eX}{Xe'}$$

$$X > 1 \square K(X) > 0$$

$$K(X) \Box (1, +\infty) \Box \Box \Box$$

$$k_{\mathbf{i}}(x) > k_{\mathbf{i} \mathbf{i} \mathbf{i} \mathbf{i} \mathbf{i}} = 0 \underset{\square}{\square} k(x) > 0$$

$$\square^{a_n} \cap \square \square X > 1$$

$$\bigcap_{x \in \mathcal{S}} f(x) < g(x) \bigcap_{x \in \mathcal{S}} (1, +\infty) \bigcap_{x \in \mathcal{S}} a > 0$$

$$\frac{1}{\sqrt{2a}} > 1 \quad 0 < a < \frac{1}{2}$$

$$X = \frac{1}{\sqrt{2a}} > 1$$

$$f(x) < g(x)$$

$$0 < a < \frac{1}{2}$$
  $f(x) < g(x)$ 

$$2 \sqrt{2a} \sqrt{1} \sqrt{2a} \sqrt{1} \sqrt{2a} \sqrt{1}$$

$$S(X) = a(X^2 - 1) - InX - \frac{1}{X} + \frac{e}{e^x}$$

$$S(x) = 2ax - \frac{1}{x} + \frac{1}{x^2} - \frac{e}{e^x}$$

$$0 \quad 2ax. x_{00} k(x) = e^{x} - ex > 0$$

$$\frac{e}{e^{x}} < \frac{1}{X_{\square \square}} - \frac{e}{e^{x}} > - \frac{1}{X_{\square}}$$

$$S(X) > X^{2} \frac{1}{X} + \frac{1}{X^{2}} - \frac{1}{X} > \frac{X^{2} - 2 + 1}{X^{2}} = \frac{(X - 1)^{2}}{X^{2}} > 0$$

$$\square^{S(X)}\square^{(1,+\infty)}\square\square\square$$

$$\square^{S(X)} > S_{\square 1 \square} = 0$$

$$0^{a.\frac{1}{2}} \int_{\mathbb{R}^n} f(x) < g(x) \int_{\mathbb{R}^n} (1,+\infty) dx$$

$$a \in \left[\frac{1}{2} + \infty\right) = f(x) < g(x) = (1, +\infty)$$

70000 
$$f(x) = e^{x} \ln x + \frac{2e^{x-1}}{x} _{000} f(x) > 1_{0}$$

$$f(x) = e^{x} \ln^{-X} + \frac{2}{x} e^{x^{-1}}$$

$$\int f(x) > 1_{000} x dn \quad X > xe^{x} - \frac{2}{e_0}$$

$$\square^{\mathcal{G}(x)=1+\ln_{X_{\square}}}$$

$$\lim_{n \to \infty} x \in (0, \frac{1}{e}) \lim_{n \to \infty} g'(x) < 0$$

$$\bigcap_{x \in (\frac{1}{e_0} + \infty)} \bigcap_{x \in (x)} g(x) > 0$$

$$\mathsf{G}(\mathbf{X}) \mathsf{G}^{(0,\frac{1}{e})} \mathsf{G}^{(0,\frac{1}{e})}$$

$$g(x) = (0, +\infty)$$

$$h(x) = xe^{-x} - \frac{2}{e} \prod h(x) = e^{-x}(1-x) \prod$$

$$000 X \in (0,1) \longrightarrow H(X) > 0$$

$$\square^{X \in (1,+\infty)} \square \square^{H(X) < 0} \square$$

$${\color{red}\square}^{h\!(x)}{\color{blue}\square}^{(0,1)}{\color{blue}\square}^{\color{blue}\square}{\color{blue}\square}^{(1,+\infty)}{\color{blue}\square}^{\color{blue}\square}$$

$$\frac{h(x)_{\square}(0,+\infty)_{\square \square \square \square \square}h_{\square \square}}{e^{-\frac{1}{e}_{\square}}} = -\frac{1}{e_{\square}}$$

$$\lim_{n\to\infty}g_{nm}(x)=h_{\text{ll}}=h_{nm}(x)$$

$$0 \longrightarrow X > 0 \longrightarrow \mathcal{G}(X) > \mathcal{H}(X) \longrightarrow f(X) > 1$$

$$f(x) = \ln x + \frac{\partial}{\partial x} - x$$

$$0100 a = 2000 f(x) 0000$$

$$0200 a = 100000 f(x) - \frac{1}{e^x} + x > 0 (0, +\infty) 00000$$

$$f(x) = \ln x - \frac{2}{x} - x, \ f(x) = \frac{1}{x} + \frac{2}{x^2} - 1 = -\frac{(x - 2)(x + 1)}{x^2}$$

$$\therefore \exists X \in (0,2) \bigsqcup f(X) > 0 \bigsqcup X \in (2,+\infty) \bigsqcup f(X) < 0 \bigsqcup$$

$$\therefore f(x)_{\square}(0,2)_{\square \square \square \square \square \square \square}(2,+\infty)_{\square \square \square \square \square \square \square}$$

$$f(x) = 2 = 1 + 2 = 3 = f(x) = 0$$

$$2000 a = 100 f(x) - \frac{1}{e^x} + x = \ln x + \frac{1}{x} - \frac{1}{e^x}$$

$$\lim_{X \to X} \frac{1}{X} > \frac{1}{e^x} \lim_{X \to X} \frac{X}{1} + 1 > \frac{X}{1}$$

$$g(x)...g(\frac{1}{e}) = 1 - \frac{1}{e}$$

$$h(x) = \frac{X}{e^x} \prod h(x) = \frac{1 - X}{e^x}$$

$$h(x), h(1) = \frac{1}{e} < 1 - \frac{1}{e}$$

$$\lim_{x \to \infty} h(x) < g(x) \lim_{x \to \infty} \frac{x}{e^x} < xhx + 1 \lim_{x \to \infty} xhx + 1 - \frac{x}{e^x} > 0 \lim_{x \to \infty} hx + \frac{1}{x} - \frac{1}{e^x} > 0$$

$$f(x) - \frac{1}{e^x} + x > 0 \qquad (0, +\infty)$$

90000 
$$f(x) = e^{x \cdot a} - ln(x + a)$$

$$a = \frac{1}{2} \cos^{2} f(x) = 0$$

$$0 = 0 \quad \text{if } \lambda > 0 \\ 0 = 0 \quad \text{if } \lambda > 0 \\ 0 = 0$$

$$a = \frac{1}{2} \int f(x) dx = e^{x^{\frac{1}{2}}} - In(x + \frac{1}{2}) \int f(x) dx = e^{x^{\frac{1}{2}}} - \frac{1}{x + \frac{1}{2}} (x - \frac{1}{2})$$

$$y = -\frac{1}{X + \frac{1}{2}} \int_{0}^{1} y = -\frac{1}{X + \frac{1}{2}} \int_{0}^{1} f(x) \int_{0}^{1} (-\frac{1}{2}, +\infty) \int_{0}^{1} f(x) dx$$

$$f(\frac{1}{2}) = 0 - \frac{1}{2} < X < \frac{1}{2} + f(X) < 0 - X > \frac{1}{2} + f(X) > 0$$

$$= f(x) = (-\frac{1}{2}, \frac{1}{2}) = (-\frac{1}{2}, +\infty) = (-\frac{1}$$

$$\cdots e^{r-a}\cdots e^{r-1} {\color{red}\square} \ln(x+a),, \ln(x+1) {\color{red}\square} e^{r-a} - \ln(x+a) \ldots e^{r-1} - \ln(x+1)$$

$$000000 a = 1_{00} f(x) = e^{x^{1}} - ln(x+1) > 0_{0}$$

$$\int_{a} a = 1_{a} f(x) = e^{x-1} - \frac{1}{x+1_{a}} (-1, +\infty)$$

$$f(0) = \frac{1}{e} - 1 < 0$$
  $f(1) = \frac{1}{2} > 0$ 

$$\int_{0}^{\infty} f(x_{0}) = 0 \int_{0}^{\infty} e^{x_{0}-1} = \frac{1}{x_{0}+1} \int_{0}^{\infty} h(x_{0}+1) = 1 - x_{0}$$

$$f(x)...f(x_0) = e^{x_0-1} - In(x_0 + 1) = \frac{1}{x_0 + 1} + x_0 - 1 = \frac{x_0^2}{x_0 + 1} > 0$$

$$0000 a_{n} 1_{00} f(x) > 0_{0} \dots 012_{0}$$

$$\therefore g(x) = e^x - x - 1 \cdot g(0) = 0 \quad e^x \cdot x + 1 \quad \Box$$

$$00^{h(X)}0^{(0,1)}00000^{(1,+\infty)}0000$$

$$\therefore h(x) = x - 1 - \ln x \cdot h_{\Box 1 \Box} = 0_{\Box \Box} x - 1 \cdot \ln x_{\Box}$$

$$0000 a_n 1_{00} e^{s \cdot s} ... X- a+1. X+a-1. In(X+a)_{0}$$

 $X=a_0$   $a=1_0$   $X+a=1_0$ 

$$0000 \, a_n \, 1_{00} \, e^{r \cdot a} > \ln(x + a)_{00} \, f(x) > 0_0 \cdots 012 \, 00$$

$$f(x) = \ln x + \frac{1}{2}ax^2 + x + 1$$

$$0100 a = -20000 f(x) 00000$$

$$0200 a = 000000 Xe^{x}...f(x)_{0}(0,+\infty)_{00000}$$

$$X \in (0,+\infty), \ f(X) = \frac{1}{X} - 2X + 1 = \frac{-2X^2 + X + 1}{X}$$

$$||f(x)| > 0 ||_{\Omega} 0 < x < 1_{\Omega} f(x) ||_{\Omega} (0,1) ||_$$

$$200000F(x) = xe^x - f(x) = xe^x - lnx - x - 1(x > 0)$$

$$F(X) = (X+1)e^{x} - \frac{1}{X} - 1 = \frac{X+1}{X} (Xe^{x} - 1)$$

$$\square G(x) = xe^{x} - 1_{\square\square\square\square} G(x) = (x+1)e^{x} > 0(x>0)_{\square}$$

$$= G(\mathbf{X}) \oplus (0,+\infty) \oplus G(\mathbf{X}) \oplus (0,+\infty) \oplus (0,+\infty)$$

$$000 \; G(0) = -1 < \; 0 \\ 0 \; G_{\square 1 \square} = e - \; 1 > \; 0 \\ 0000000000 \; C \in \; (0,1) \\ 00 \; G_{\square C \square} = 0 \\ 00 \; G_{$$

$$\underset{\square}{\square} X \in (0,\mathcal{C}) \underset{\square}{\square} F(X) < 0 \underset{\square}{\square} X \in (\mathcal{G} + \infty) \underset{\square}{\square} F(0) > 0$$

$$0 m > -1_{00} h'(m) = 0_{00} m < 1_{00} h'(m) < 0_{00}$$

$$0 = M < 1_{100} H(m) < 0 = h(m) = 0_{100} H(m) = 0_{100} H(m) > 0_{100} H(m) = 0_{100} H(m) =$$

$$h(b-1) = (b-2)e^{b-2} + 1... - \frac{1}{e} + 1 > 0$$

$$h(3-b) = (2-b)e^{-b} + 2b - 3 > (2-b)(3-b) + 2b - 3 = (b-\frac{3}{2})^2 + \frac{3}{4} > 0$$

$$h_{\boxed{1}} = b - 1 < 0_{\boxed{0}} = b - 1 < 0_{\boxed{0}} = h(m) = (b - 1, 1) = (1, 3 - b) = 0$$

and 
$$b < 1$$
 and  $b < 1$  and

$$f(x) > x[g(x) - b] \Leftrightarrow \frac{ae^x}{x} - hx > 0$$

$$G(x) = \frac{ae^x}{x} - \ln x(x > 0) \qquad a... \frac{2}{e^x} = G(x) = 0$$

$$G(X) = \frac{Q(X-1)e^{x}}{X^{2}} - \frac{1}{X} = \frac{\partial(X-1)e^{x} - X}{X^{2}}$$

$$G(x) = \frac{A(x-1)}{x^{2}} [e^{x} - \frac{X}{A(x-1)}] H(x) = e^{x} - \frac{X}{A(x-1)}$$

$$H(x) = e^{x} + \frac{1}{a(x-1)^{2}} > 0$$

$$H_{2} = e^{x} - \frac{2}{a} = \frac{ae^{x} - 2}{a} ...0$$

$$H(x) = e^{x} + \frac{1}{a(x-1)^{2}} > 0$$

$$H[2] = e^{x} - \frac{2}{a} = \frac{ae^{x} - 2}{a} ...0$$

$$\int_{0}^{t} t \in (1,2) \operatorname{con} \frac{t}{a(t-1)} > e^{t} \operatorname{con} 1 < t < \frac{ae^{t}}{ae^{t} - 1}$$

$$H(\vec{x}) = \vec{e} - \frac{t}{a(t-1)} < \vec{e} - \vec{e} = 0$$

$$G(X) = \frac{\partial \mathcal{C}^{(k)}}{\partial X} - \ln X$$

$$H(X_0) = e^{x_0} - \frac{X_0}{a(X_0 - 1)} = 0 \qquad e^{x_0} = \frac{X_0}{a(X_0 - 1)} \qquad G(X_0) = \frac{1}{X_0 - 1} - \ln X_0$$

$$G(x) = \frac{1}{(x_0 - 1)^2} - \frac{1}{x_0} < 0$$

$$\therefore G(X_0) > G_{ \square 2 \square} = 1 - \ln 2 > 0_{ \square \square \square} G(X) > 0_{ \square}$$

$$\lim_{n \to \infty} \frac{a}{e^n} \frac{2}{n} \int_{\Omega} f(x) > x[g(x) - b]_{\Omega}$$



学科网中小学资源库



## 扫码关注

可免费领取180套PPT教学模版

- ◆ 海量教育资源 一触即达
- ♦ 新鲜活动资讯 即时上线

